

CLAIMS

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1. A fluid operated torque wrench, comprising a housing having a cylinder portion with a cylinder having an axis and a driving portion; two pistons movable in said cylinder along said axis independently from one another and having piston rods; two ratchet-lever mechanisms located in said driving portion, a drive element to which both said ratchet lever-mechanisms are connected; means for supplying a fluid into said cylinder, said pistons being formed so that when the fluid is supplied by said fluid supplying means at one side of one of said pistons and at another opposite side of the other of said pistons as considered in an axial direction, said one piston moves in one axial direction (allowing one of said ratchet-lever mechanisms to ratchet while said other piston moves in an opposite axial direction to turn the other ratchet-lever mechanism so as to turn said drive element) while when the fluid is supplied at the other side of said one piston and simultaneously at one side of said other piston as considered in the axial direction said one piston moves in said other axial direction (turn said one ratchet-lever mechanism to turn said drive element while said other piston moves in said other axial direction allowing said other ratchet lever-mechanism to ratchet.)

said housing

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ratchet.
✓

not
sufficient.
supp.

2. A fluid operated torque wrench as defined in claim 1, wherein one of said pistons is hollow and has a hollow piston rod to which a first rod end is connected, while the other of said pistons has a solid piston rod extending into said hollow piston rod and having a second rod end, said rod ends being connected to corresponding ones of said ratchet-lever mechanisms.

3. A fluid operated torque wrench as defined in claim 2, wherein said other piston has a (second piston rod) having a same diameter as said solid piston rod to assure that said pistons have the same piston area at said opposite side.

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